Analytical and Bioanalytical Chemistry

Electronic Supplementary Material

A cationic cysteine-hydrazide as an enrichment tool for the mass spectrometric characterization of bacterial free oligosaccharides

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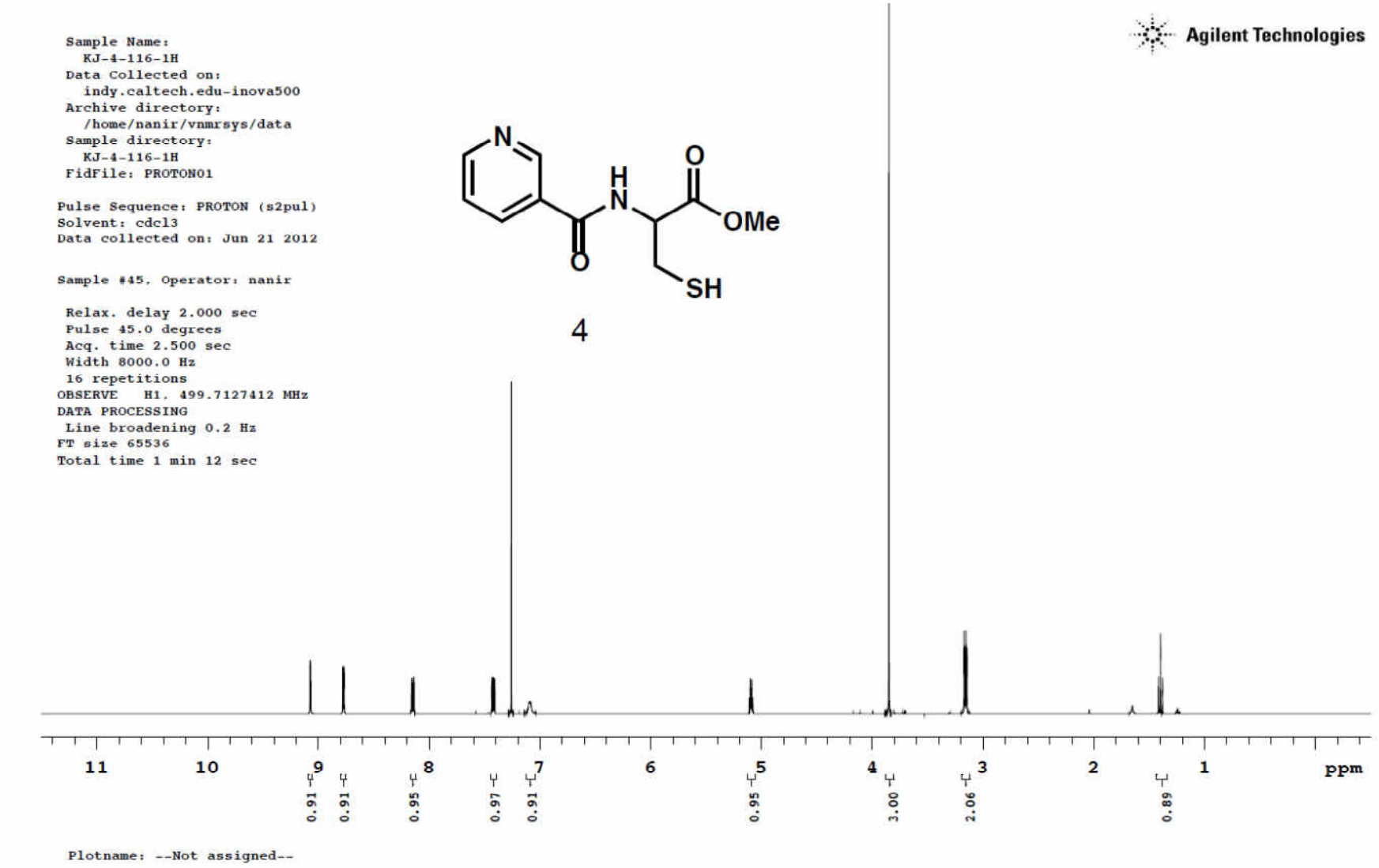

Fig. S1 NMR spectra of cysteine methyl ester nicotinamide

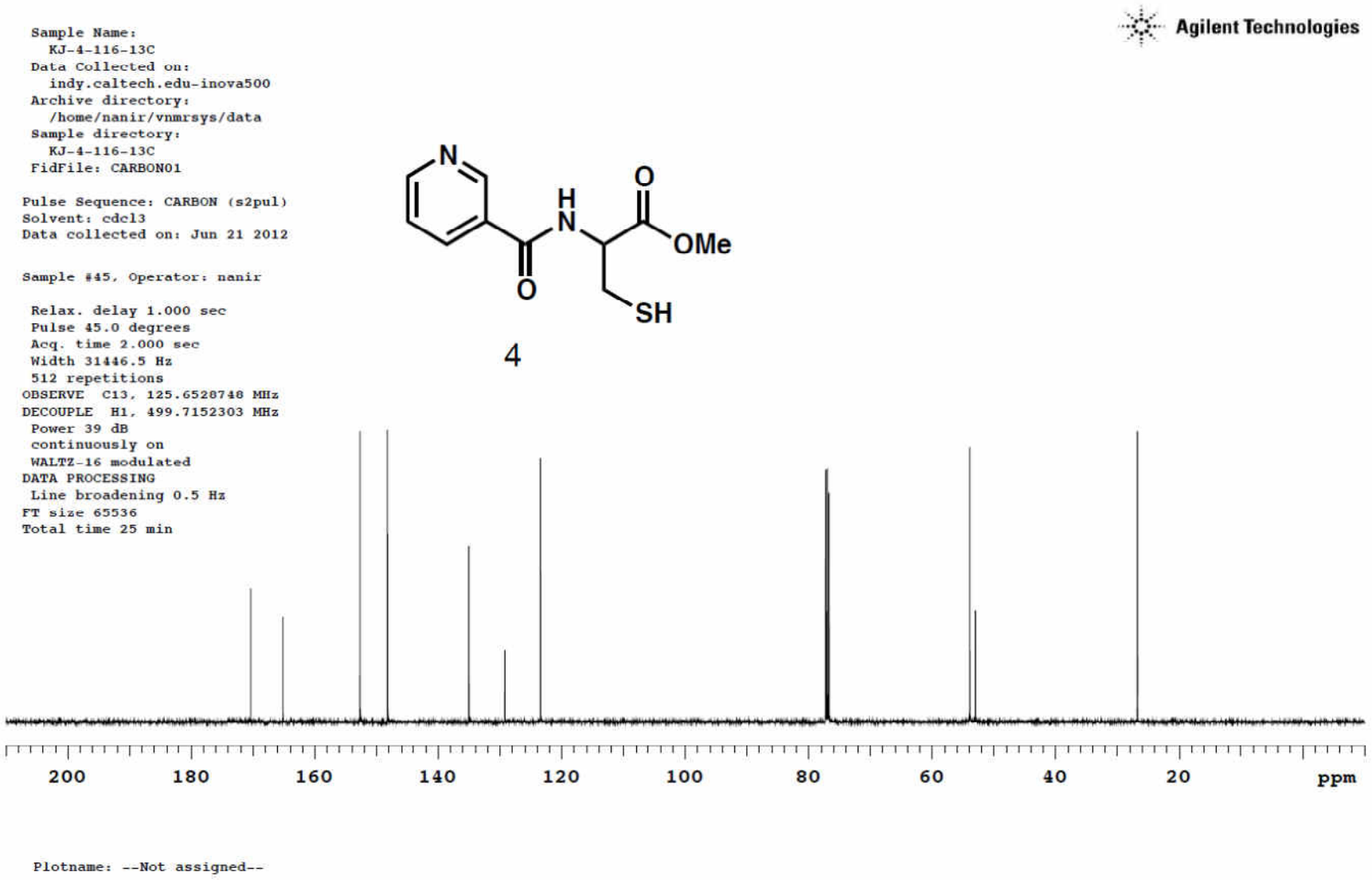

Fig. S1 (continued) NMR spectra of cysteine methyl ester nicotinamide

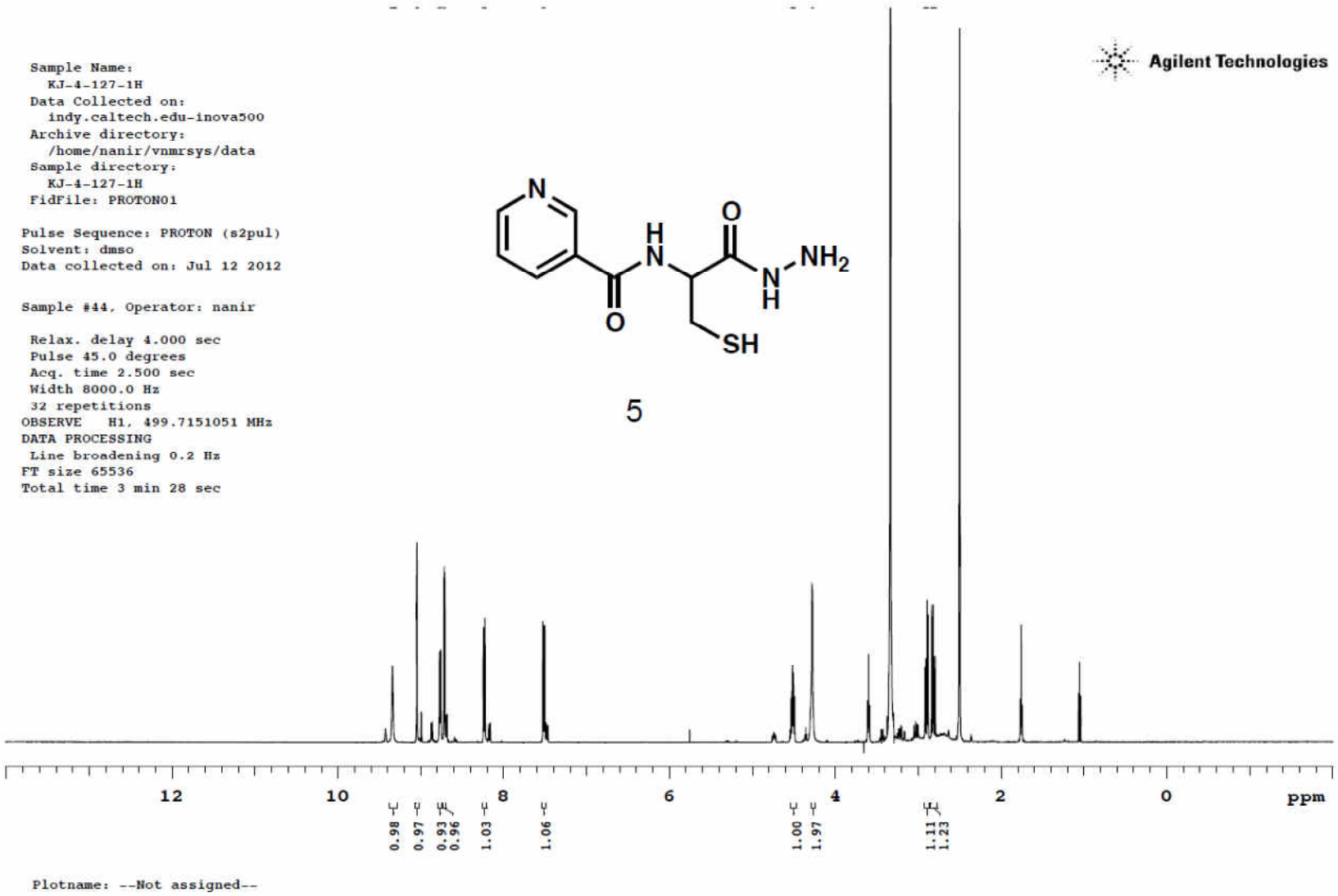

Fig. S2 NMR spectra of cysteine hydrazide nicotinamide

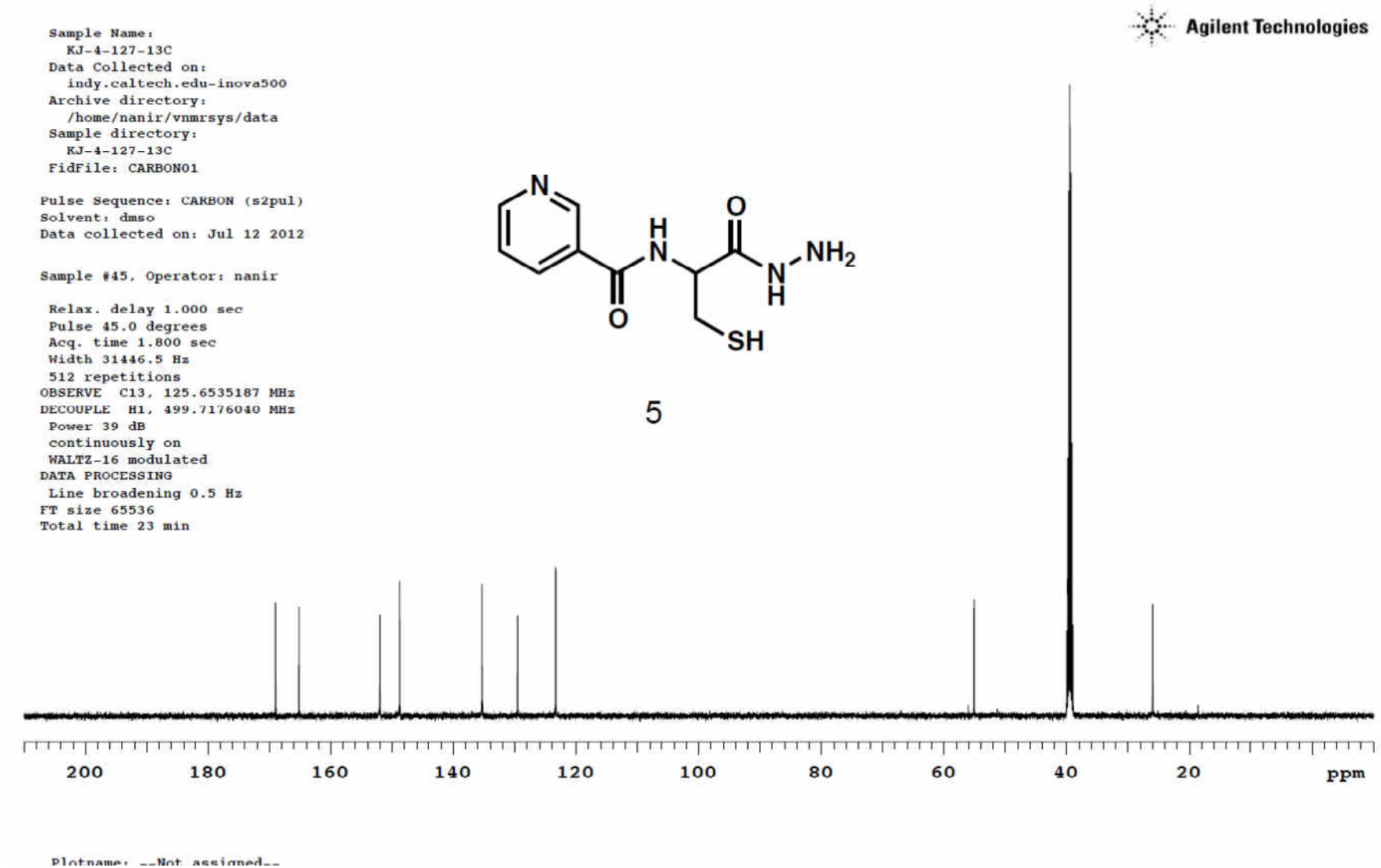

Fig. S2 (continued) NMR spectra of cysteine hydrazide nicotinamide

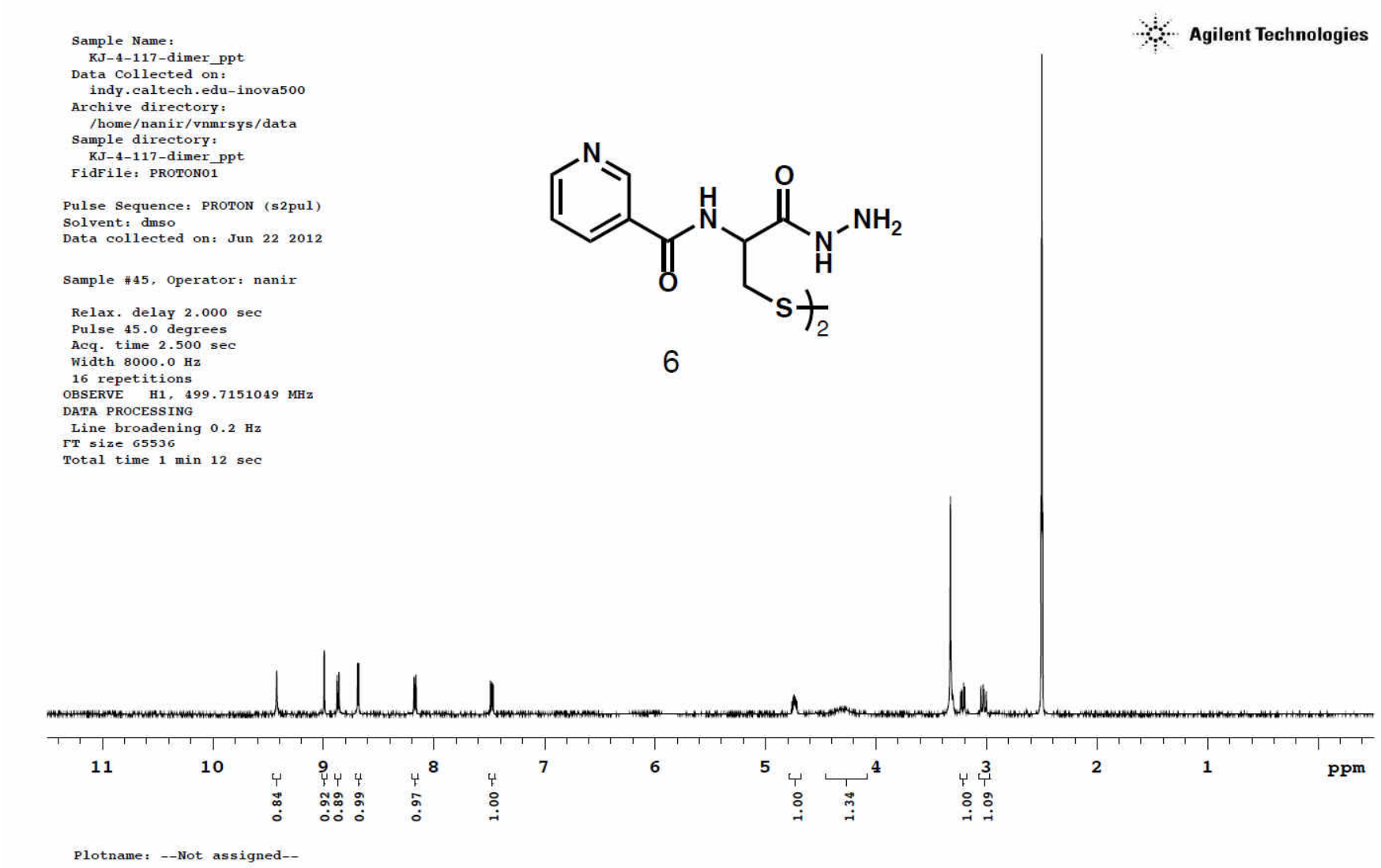

Fig. S3 NMR spectra of cystine dihydrazide nicotinamide

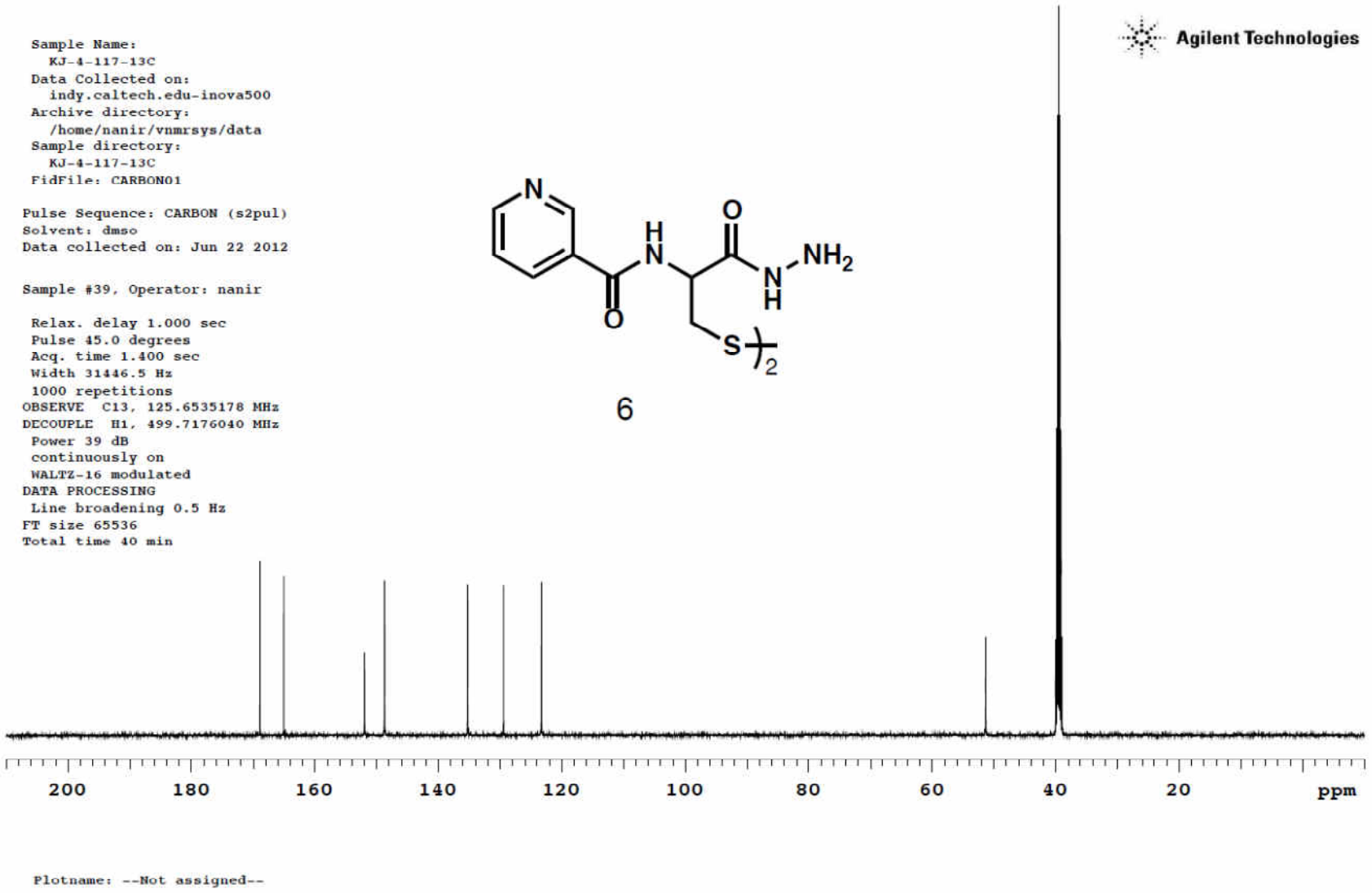

Fig. S3 (continued) NMR spectra of cystine dihydrazide nicotinamide

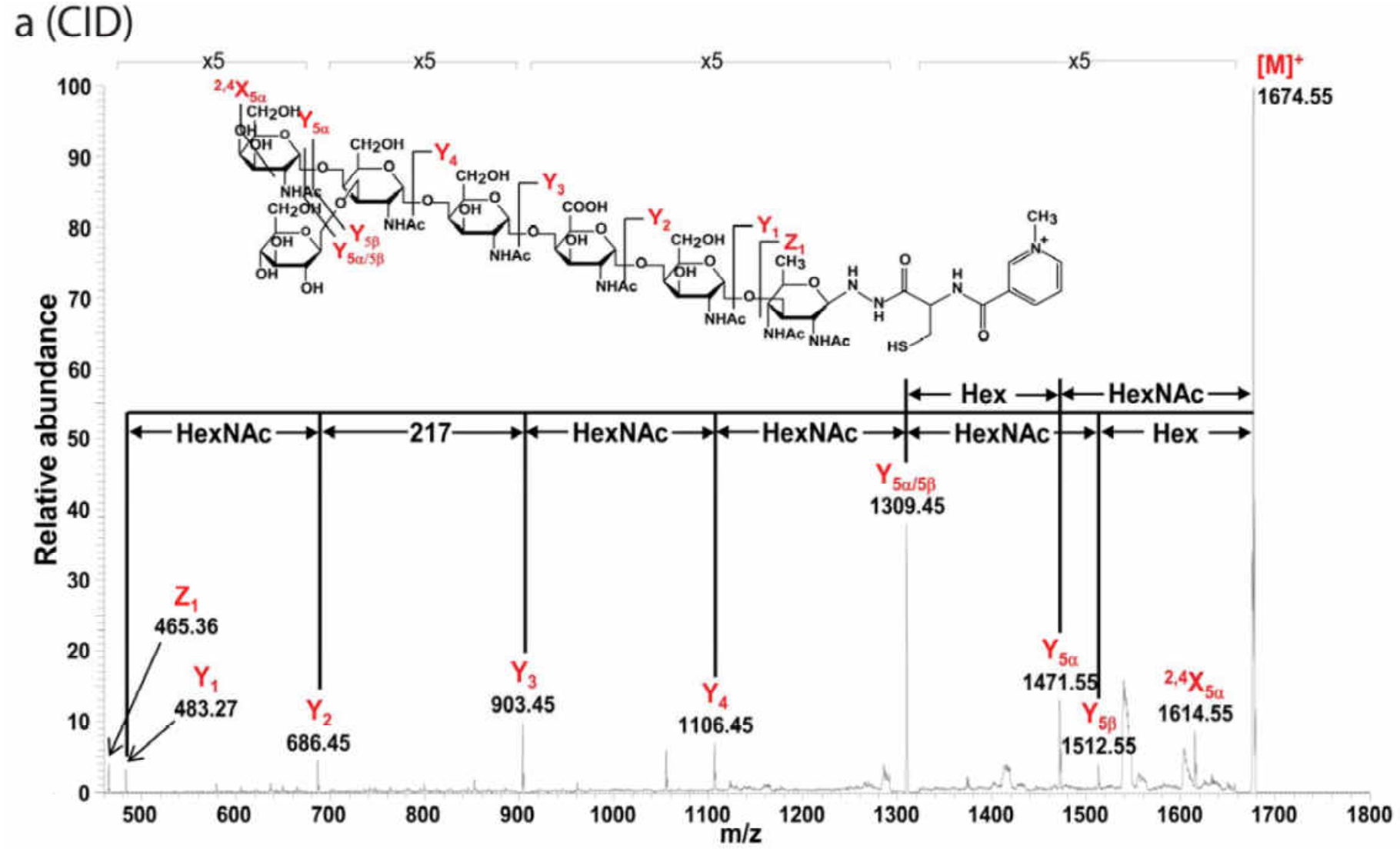

Fig. S4 Selected tandem MS spectra of the fOS_{Cc}. (a) CID (30-ms with 15% collision energy)

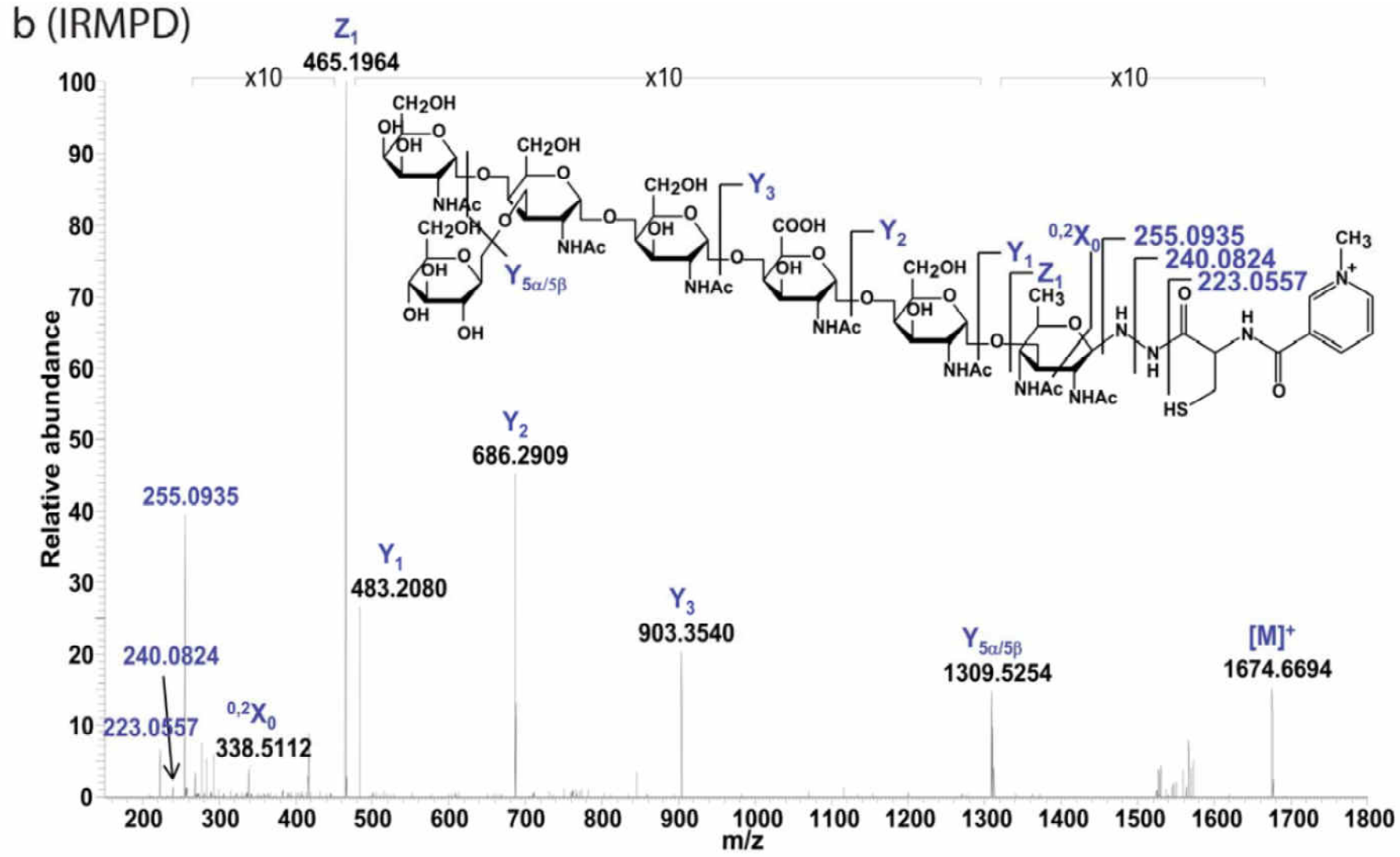

Fig. S4 (continued) Selected tandem MS spectra of the fOS_{Cc}. (b) IRMPD (50-ms with 10-W laser power) MS/MS spectra

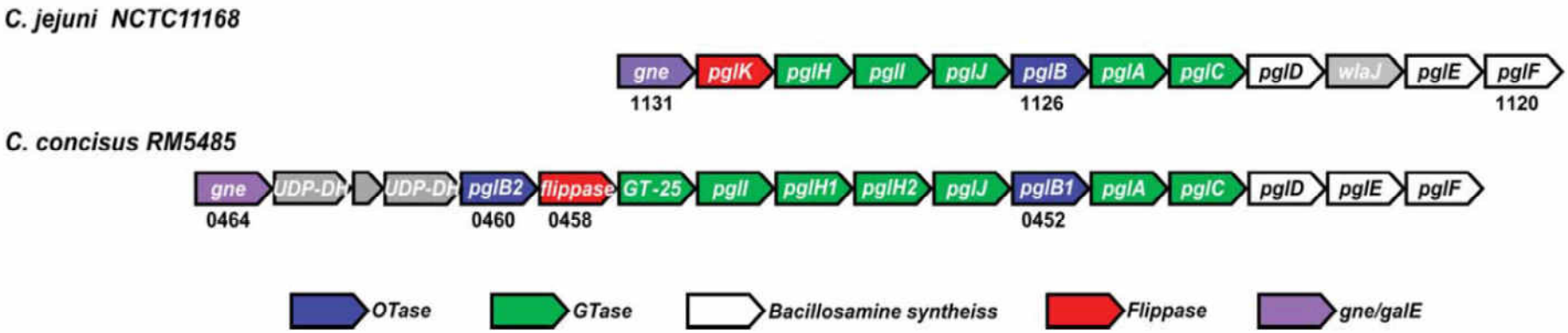

Fig. S5 Selected bacterial protein N-glycosylation (*pgl*) gene clusters. Blue, oligosaccharyltransferase gene (*pglB*); red, flippase gene (*pglK*); green, glycosyltransferase (GT) gene; purple, UDP-sugar epimerase gene (*gne* or *galE*); white, sugar biosynthesis gene. GT-25, group 25 family glycosyltransferase; UDP-DH, UDP-sugar dehydrogenase.